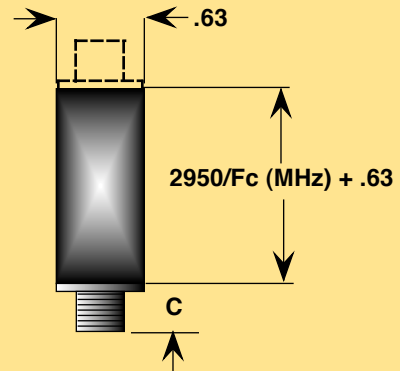
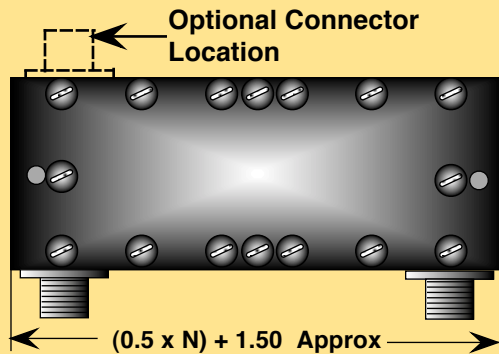


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**Interdigital Bandpass
 BP31 Series
 500 to 18000 MHz**



See Page 12 of the full catalog for 'C' dimensions. The size shown is a standard used by FILTEK to facilitate a low cost, easily reproducible unit. Should you require another size, please submit all of your requirements - both electrical and mechanical. This will enable FILTEK to quote the optimum design for your application.

Specifications

Electrical

Center Frequency (Fc)
 3dB Relative Bandwidth (% of Fc)
 Number of Sections Available
 Nominal Impedance
 Maximum VSWR
 Maximum Fc Insertion Loss
 Stopband Attenuation
 Average Power (Watts Max to 10K Feet)
 Peak Power (Watts Max to 10K Feet)

STANDARD

1000 to 12000 MHz
 3 to 30
 3 to 12
 50 Ohms
 1.5/1
 See Chart Below
 See Curve page 36*
 (3 X % BW) / Loss Factor
 15 X % BW

SPECIAL

500 to 18000 Mhz
 2 to 70
 3 to 20
 50 Ohms
 1.25/1
 See Chart Below
 See Curve Page 36*
 100
 1000

*Page 36 in Full Catalog

Insertion Loss

The Maximum Insertion Loss at Center Frequency is equal to:

$$\frac{\text{Loss Factor} \times (\text{Number of Sections} + 0.5)}{\% \text{ 3dB Bandwidth}} + 0.1$$

Example:
 The Maximum loss for a 10 Section BP31 Series filter with Fc at 3000 MHz and a 3dB Bandwidth of 450 MHz is:

$$(1.2 \times 10.5) / 15 + 0.1 = .94\text{dB}$$

Center Frequency (MHz)	1000 to 2000	2001 to 3000	3001 to 4000	4001 to 5000	5001 to 12000
Loss Factor	1.7	1.2	.95	.85	.80

Environmental

Vibration (10 to 2000 Hz)
 Shock (11 mSec)
 Humidity
 Operating Temperature
 Non-Operating Temperature

STANDARD

2 G
 5 G
 90% Relative
 0° to +50°C
 -25° to +75°C

SPECIAL

15 G
 15 G
 100% Relative
 -25° to +100°C
 -54° to +125°C